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PRELIMINARY ASSESSMENT FOR

EMPIRE STATE OIL COMPANY REFINERY - THERMOPOLIS

PREPARED BY: KATIE SEWELL

DATE: MAY 18, 1984

The Empire State Oil Company Refinery is located on the southeast edge of Thermopolis in central Wyoming. The site is bounded on the east and south by the Big Horn River, on the west by a railroad spur, and on the north by Amoretti Street. Katie Sewell of the Wyoming Department of Environmental Quality (WDEQ), Solid Waste Management Program visited the site on March 30, 1984.

The refinery in Thermopolis was operated by Empire State Oil Company from 1938 until it shut down in 1969. In August of 1972, Ashland Oil Company aquired all domestic assets of Empire State Oil Company including their Thermopolis refinery. Ashland Oil Company then deeded the property in September of 1972 to the Gottsche Foundation, which runs a rehabilitation center in Thermopolis.

According to Mr. John Herrin, former president of Empire State Oil Company, the capacity of the refinery was 7,000 barrels per day. Asphalt, fuel oil, diesel fuel, and distillate were produced but no gasoline was made because the crude was too heavy. The facility had an API separator and several other pits or ponds that can be seen on a Wyoming Highway Department aerial photograph. There was also a large pond containing water used for fire protection and boiler water.

Doug Warnock with the Gottsche Foundation, current owners of the site, took Katie Sewell and Marge Knight (WDEQ, Solid Waste) on a tour of the site. All of the tanks were removed in 1974 by Ashland Oil Company and the site was leveled. Old refinery buildings remain on the north edge of the site but otherwise the land is covered with vegetation and a few scattered piles of building materials.

The pond used for fire protection and boiler water is still in existence. Dead fish were seen around the edge of the pond and old tires, wood, pipes and other debris could be seen in the bottom. The sediment was a black silty material and when disturbed with a stick, tiny droplets of oil would come to the surface and form a sheen on the water. No seeps or stained soil were seen on the bank of the Big Horn River directly east of the pond.

PRELIMINARY ASSESSMENT FOR EMPIRE STATE OIL COMPANY REFINERY MAY 18, 1984
PAGE 2 of 2

The API separator and several other ponds or pits were located directly north of the pond. This area has been covered. Ashland Oil Company has no records of cleanup and disposal of materials in this area. Mr. Herrin remembered the API separator being cleaned and tank bottoms being taken to the city dump.

There is concern at this site about the potential for ground and surface water contamination. It is a common occurance at refineries in Wyoming to have a layer of hydrocarbons on the groundwater and seepage into nearby rivers. These hydrocarbons can come from leaking tanks, leaking underground pipes, spills, and disposal area. The groundwater is very shallow and the Big Horn River bounds the Thermopolis Refinery on the east and south.

CONCLUSION:

There is not enough information on the former Empire State Oil Company Refinery to determine if an environmental hazard exists. It is recommended that a site inspection with sampling be conducted at this site to further define potential problems. Sampling should include, but not necessarily be limited to: 1) determination of contamination of groundwater under the refinery, 2) analysis of pond water and sediment, 3) possible contamination near covered API separator, and 4) sampling of Big Horn River for contamination.

being filmed

EMPIRE STATE OIL COMPANY

THERMOPOLIS REFINERY

site sketch not to scale drawn by: Katie Sewell May 18,1984

reference: 1972 Wyoming Highway Department aerial photo

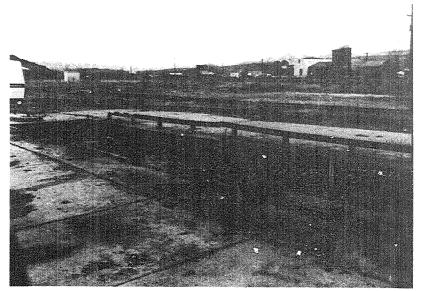


EMPIRE STATE OIL COMPANY THERMOPOLIS REFINERY

Thermopolis, Wyoming

site location map
1" = 2000'

reference: USGS topo map Thermopolis quad



possible looding area



dead fish in water holding pond

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. DENTIFICATION
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the groundwate	r is very shallow	(from 25 to 60 feet deep)			
01 TO B. SURFACE WATER 03 POPULATION POTENT	R CONTAMINATION TALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	E POTE	ENTIAL	□ ALLEGED
the Big Horn R	iver bounds the sit	e on the east and south			
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I. IDENTIFICATION
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01 to J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 () OBSERVED (DATE	§ POTENTIAL	1) ALLEGED		
site is covered with vegetation the flora	permitting possible uptake	of contamina	ents into		
01 St. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 M OBSERVED (DATE: 3/30/84)	C. POTENTIAL	CI ALLEGED		
dead fish observed in abandoned pond on site, cause unknown no other wildlife observed but site is not fenced					
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 (] OBSERVED (DATE:)	□ POTENTIAL	[] ALLEGED		
01 D M. UNSTABLE CONTAINMENT OF WASTES (Spits/runoff/standing liquids/leaking drums)	02 C OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION				
01 □ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED		
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED		
01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	ED HAZARDS		destination of the second seco		
IN. TOTAL POPULATION POTENTIALLY AFFECTED:					
IV. COMMENTS					
see narrative					
V. SOURCES OF INFORMATION (Cité specific references, e.g., state files, sai	mpie analysis, reports)				
Wyoming State Highway Department - Wyoming Department of Environmental Mr. John Herrin - former president	Quality - Solid Woods	e vîsit ıy - Thermop	olis		

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